

META-ANALYSIS: THE EFFECT OF TEACHING MEDIA TOWARDS STUDENTS' ENGLISH VOCABULARY MASTERY

Shofiyah Dinda Yudiramanda¹, Farsya Shabira Suhandoko², Muhammad Sulhan³

^{1,2,3}Universitas Indraprasta PGRI, Jakarta, Indonesia

Corresponding Author(S): shofiyahdindaa@gmail.com

Abstract:

This study conducts a meta-analysis to evaluate how different teaching media affect students' English vocabulary mastery. This research uses a quantitative method by conducting meta-analysis to review 20 quantitative experimental articles published between 2018 and 2024. The research aims to give a detailed understanding of the impact of various media on vocabulary learning. The study finds that interactive and engaging media, such as games, songs, and applications like Duolingo and "My Dictionary," significantly improve vocabulary mastery. The Guessing Game shows the highest impact with an effect size of 0.893, indicating a huge effect, while the Mesmerize Application has the least impact with an effect size of 0.005. The results show that elementary and junior high school students benefit the most from these media, with the highest effect sizes at these educational levels. The findings support the use of innovative teaching media in English language education, emphasizing student-centered learning and the use of technology to enhance educational outcomes. This research provides important insights for educators, curriculum developers, and policymakers looking to improve English vocabulary teaching strategies. It advocates for the strategic use of engaging teaching methods and technology to support vocabulary mastery, which is crucial for effective communication skills in English.

Keywords:

Meta-Analysis; Teaching Media; Vocabulary



Creative Commons Attribution 4.0 International License

INTRODUCTION

In this digital era, media has become an essential part of daily life, especially in the field of education. The development of information and communication technology has provided wide access to various types of media, from print, electronic, to social media. The use of social media has been proven to offer multiple benefits in the learning process, one of which is in students' vocabulary mastery. Vocabulary itself is one of the main components in mastering the English language. A rich and diverse vocabulary can enhance students' verbal and non-verbal communication skills. Therefore, effective methods and strategies are needed in teaching. Media, as an easily accessible and engaging tool, offers great potential to help students enrich their vocabulary. Particularly for EFL, a strong vocabulary allows them to express their thoughts clearly and understand complex texts, which is essential for effective learning across all subjects. Furthermore, a rich vocabulary fosters critical thinking and encourages students to engage more deeply with the material, making connections and drawing inferences that enhance their educational experience. Additionally, vocabulary development is linked to improved writing skills, as students with a broader word bank can articulate their ideas more effectively in essays and reports. Vocabulary learning is not just a component of language learning but a foundational element that supports overall language proficiency (Agazzi, 2022).

Learning skills refer to the abilities and strategies that individuals use to acquire, process, and apply knowledge effectively. On the other hand, teaching media refers to the extensive range of tools and resources utilized to facilitate this educational journey. These elements create a dynamic educational environment that supports knowledge acquisition and encourages learners to think critically and creatively. Duolingo is a widely recognized application for language learning, particularly English, and is an effective teaching media. It facilitates independent learning by allowing students to study English outside the traditional classroom environment, thus promoting self-directed education. The application is meticulously crafted to be both stimulating and enjoyable, thereby considerably enhancing learners' motivation (Kemala Sari et al., 2022).

The low learning outcomes in English among Indonesian students are complex issues influenced by various factors, including insufficient vocabulary acquisition. According to recent data from the EF English Proficiency Index (EF EPI) 2023, Indonesia ranks 79th out of 113 countries with an average score of 469, indicating relatively weak proficiency in the language. This reflects the challenges faced by students in mastering this foreign tongue. Many students struggle with learning English due to their limited vocabulary base. In other words, Indonesian students have insufficient English vocabulary collection (Sudarman et al., 2022). Research indicates that learners face difficulties in memorizing and utilizing new words, which constitutes basic skills for effective communication. These limitations hinder their abilities to listen, speak, read, and write proficiently.

Based on *kurikulum merdeka* students are expected to achieve six key elements in English learning: listening, reading, viewing, speaking, writing, and presenting. On the other hand, in the 2013 Curriculum, students are required to meet several competencies, such as understanding and practicing their religious teachings (KI 1), developing behaviors like honesty, discipline, responsibility, and cooperation in social interactions, reflecting the nation's values in the global community (KI 2), applying factual, conceptual, and procedural knowledge in various fields like science, technology, arts, and culture (KI 3), and processing, analyzing, and presenting information in both concrete and abstract contexts using appropriate scientific methods (KI 4). Looking at the learning outcomes from both curriculums, the writer is interested in exploring whether students' English skills have reached the expected learning goals. In order to support the improvement of vocabulary mastery in English learning, teachers are encouraged to employ interactive teaching media to boost students' interest and make their understanding of vocabulary more relevant. This approach can lead to a significant improvement in students' English vocabulary mastery.

Previous studies have shown that media use successfully affects students' English vocabulary mastery (Raudlatul H., et al 2022). However, these studies have produced varied positive results, ranging from small to large (Robi., et al., 2022). Therefore, a metaanalysis is needed to unify these study results and provide a more comprehensive picture of the influence of media on students' English vocabulary acquisition.

This meta-analysis aims to critically analyze and evaluate various studies related to the use of educational media on students' English vocabulary mastery. This study aligns with the principles of the Independent Curriculum (*Kurikulum Merdeka*) by prioritizing student-centered learning, cultivating critical thinking and problem-solving abilities, and promoting the use of technology to enhance teaching and learning. By examining the impact of instructional media, this research contributes to the broader goal of improving English language education in Indonesia and equipping students with the necessary skills of English.

Based on this, the research problems of this meta-analysis are formulated as follows; (1) How much is the effect size of teaching media on English vocabulary mastery based on independent variables?, (2) How much is the effect size of educational media on English vocabulary mastery based on educational level?, (3) How much is the effect size of education year?, (4) How much is the effect size of teaching media on English vocabulary mastery based on the publication year?, (4) How much is the effect size of teaching media on English vocabulary mastery based on the region?, and (5) How much is the cumulative effect size of educational media on English vocabulary mastery used as learning content?

METHOD

The writers adopted a meta-analysis methodology to determine the effectiveness of learning media in improving English vocabulary mastery among students. By systematically analyzing findings from relevant research published in various sources, including Google Scholar and Sci-Space, this study aims to draw comprehensive conclusions regarding the impact of various learning media on students' vocabulary acquisition. Articles were retrieved from Google Scholar and Sci-Space using the search terms "the effect of teaching media" and "English vocabulary mastery".

In order to ensure the relevance and validity of the meta-analysis, a Purposive Sampling approach was utilized to carefully select articles that align with the specific research focus. This involved identifying and extracting data from a subset of articles that met the established criteria, ensuring that the analysis was based on a representative sample of relevant studies.

In quantifying the strength of the relationships between variables, the writers apply the Healy formula (Healy, 1984) for calculating effect size. This formula, rooted in the principles of analysis of variance (ANOVA) and regression analysis, expresses effect size as $r^2 = \frac{to^2}{to^2+db}$. In this context, r^2 represents the proportion of the dependent variable's variance that can be attributed to the independent variable(s). It serves as a specific case of the general r^2 measure. The formula incorporates to^2 , representing the explained variance (sum of squares due to regression), and db, representing the unexplained variance (sum of squares due to error).

Based on the provided criteria, the interpretation of effect size is as follows:

- Small Effect: $0.01 < r^2 < 0.09$
- Medium Effect: $0,09 < r^2 < 0,25$
- Large Effect: $r^2 > 0,25$

RESULTS AND DISCUSSION

Results

A comprehensive collection of 20 articles examining the effect of teaching media towards students' English vocabulary acquisition among students was assembled for this metaanalysis. These articles were carefully selected from a diverse range of academic journals and conference proceedings published between 2018 and 2024. Table 1 provides a detailed breakdown of the 20 articles across various research groups.

No.	Title	Author/Institution	Journal Name	Link
1	The implementation of Audio-	Adelia Puspita, Cucu	U-Jet: UNILA	22450-55661-1-PB-
	Visual Media in improving	Sutarsyah, Burhanuddin	Journal of English	libre.pdf
	students' vocabulary mastery		Teaching	
	through WhatsApp	Universitas Lampung		
2	Pengaruh Media Film Barat	Siti Nurrahmah, Romdanih,	SEMNARA 2021	https://jurnal.stkipkusum
	dengan Subtitle Bahasa Inggris	Megawati		anegara.ac.id/index.php/s
	terhadap Penguasaan Kosakata			emnara2020/article/view/
	Siswa	STKIP Kusuma Negara		<u>376</u>
3	Pengaruh Media Film Barat	Maulana Idris Hari Kismoko,	Prosiding Seminar	https://jurnal.univpgri-
	dengan Subtitle Bahasa Inggris	Mulyadi Rusman Roni	Nasional Program	palembang.ac.id/index.ph
	terhadap Penguasaan Kosa Kata		Pascasarjana	p/Prosidingpps/article/vie
	Siswa dengan Menggunakan	SMA PGRI Gelumbang,	Universitas PGRI	<u>w/5626</u>
	Sistem Belajar Dari Rumah	Universitas PGRI Palembang	Palembang	
	SMP Negeri 3 Kapontori			
4	The Effect of Guessing Game on	Raudlatul Hasanah,	Sibatik Journal:	https://publish.ojs-
	Students' Vocabulary	Ismalianing Eviyuliwati,	Jurnal Ilmiah Bidang	indonesia.com/index.php
	Knowledge (A Quasi-	Maya Deviyanti	Sosial, Ekonomi,	SIBATIK/article/view/12
	experimental Study at the		Budaya, Teknologi,	
	Seventh Grade of a state Islamic	UIN Syarif Hidayatullah	dan Pendidikan	
	Junior High School of			
	Tangerang Selatan)			
5	The Use of Think Bingo Game	Rita Noviyanti, Syamsul	Research in English	https://jim.usk.ac.id/REA
	to Improve Students'	Bahri, and Chairina	and Education	D/article/view/11466
	Vocabulary Mastery		Journal	
		Universitas Syiah Kuala		
6	Using Jumbled Letters to	Sri Wahyuni, Ali Wira	KLASIKAL: Journal	http://www.journalfkipun
	Improve Students Vocabulary	Rahman	of Education,	iversitasbosowa.org/inde
	Mastery		Language Teaching	x.php/klasikal/article/vie
		Universitas Muhammadiyah	and Science	<u>w/35</u>
		Parepare		
7	Using Song to Improve	Amelia Ramadini, Siti	PROJECT:	https://journal.ikipsiliwar
	Vocabulary Mastery for	Halimah	Professional Journal	gi.ac.id/index.php/project
	Elementary School		of English Education	/article/view/1731
		IKIP Siliwangi		
8	The Use of My Dictionary	Iman Santosa, Andriyadi	Eltin Journal:	<u>http://e-</u>
	Application to Improve	-	Journal of English	journal.stkipsiliwangi.ac.
	Students, Vocabulary Mastery	IKIP SILIWANGI	Language Teaching	d/index.php/eltin/article/v
	-		in Indonesia	<u>iew/1224</u>
9	The Influence of Subtitled	Abu Bakar, Sayid	LENCANA: Jurnal	https://ejurnal.politeknikj
	Movies on Students Vocabulary	Ma'rifatullah	Inovasi Ilmu	ratama.ac.id/index.php/L
	Mastery		Pendidikan	encana/article/view/2387
	-	Universitas Hasyim Asy'ari		

Table 1. Sample Article Distribution

162 Shofiyah Dinda Yudiramanda, Farsya Shabira Suhandoko, Muhammad Sulhan

10	The Use of Modified English	Nuzulur Rohmah,	Eltin Journal:	http://www.e-
	Song to Improve Vocabulary	Rohmani Nur Indah	Journal of English	journal.stkipsiliwangi.ac.
			Language Teaching	d/index.php/eltin/article/
		IAIN Kediri, Universitas	in Indonesia	<u>iew/2537</u>
		Islam Negeri Maulana Malik Ibrahim Malang		
11	The Use of English Subtitle in Movie to Improve Students'	Rosmia Citra Lestari	AJES - Academic Journal of Education	https://ejurnal.undana.ac. d/AJES/article/view/1264
	Vocabulary: An Experimental Study in Grade IX of SMPN 1 Gunung Sari Academic Year	Universitas Mataram	Sciences	
12	2015/2016 Pengamuh Penggungan Duolingo	Ursya Tiara Khawas,	Jurnal Abdi Insani	https://abdiingani uprom
12	Pengaruh Penggunaan Duolingo untuk Meningkatkan Kosakata Siswa Kelas Tujuh	Eliasanti Agustina	Juniai Abui insain	https://abdiinsani.unram. ac.id/index.php/jurnal/art icle/view/1511
	·	Universitas PGRI Adi Buana Surabaya		
13	Using vocabulary notebooks to	Ni Luh Fitri Andewi, Mochtar	E-Journal of English	using-vocabulary-
	improve vocabulary mastery of seventh-grade students	Marhum, Mafulah	Language Teaching Society	notebooks-to-improve- vocabulary-mastery-of-
		Universitas Tadulako		<u>1z653fjypr</u>
14	Anagram Game to Enhance Students' Vocabulary Mastery	Wardah Mutiah Nasution, Yusni Sinaga.	English Journal for Teaching and	https://jurnal.uinsyahada ac.id/index.php/EEJ/artic
			Learning	<u>le/view/2685</u>
		Institut Agama Islam Negeri (IAIN) Padangsidimpuan,		
15	The Effect of Using Duclings	Indonesia Vasa Eitzi Malyann Malani	Innovative: Journal	https://i
15	The Effect of Using Duolingo Application Toward Students' Vocabulary Mastery at The	Yesa Fitri, Melyann Melani, Veni Roza, Reflinda Reflinda	Of Social Science Research	https://j- innovative.org/index.php Innovative/article/view/1
	Second Grade of SMPN 1 Koto Besar	UIN Bukittinggi		<u>374</u>
16	Word Mapping in Students'	Siti Syafi'atul Qomariyah,	Journal of English	https://e-
	Vocabulary Mastery	Bq. Zuhrotun Nafisah.	Language Teaching	journal.undikma.ac.id/in ex.php/joelt/article/view/
		Universitas Pendidikan		<u>2736</u>
17	The Effect of Using Cresswerd	Mandalika Diana Lamiunida Siragar	Iournal of English	https://infor accessingtitute
17	The Effect of Using Crossword in Teaching Vocabulary at The	Diana Lamjunida Siregar, Nurhayati Sitorus, Febrika	Journal of English Language and	https://infor.seaninstitute org/index.php/pendidika
	Eighth Grade of SMP HKBP	Dwi Lestari	Education	/article/view/2002
	Sidorame Medan	2 1 Dobali	JOURNAL	<u>, article, ricw/2002</u>
		Universitas HKBP	SCIENTIA	
		Nommensen		
18	The Effect of Using "Duolingo"	Novra Melisa P. Hutabarat,	Innovative: Journal	https://j-
	Application on English	Siska Anggita Situmeang	Of Social Science	innovative.org/index.php
	Vocabulary Mastery of Grade		Research	Innovative/article/view/2
	Eighth at Smp Swasta Teladan	Universitas HKBP		<u>992</u>
19	Pematangsiantar The Effect of Memrise	Nommensen PematangSiantar Robi Faizal Rohim, Rizdki	Journal of English	https://ejournal.unma.ac
17	Application Towards Students'	Elang Gumelar, Riandi	Language Learning	<u>d/index.php/jell/article/v</u>
	Vocabulary Mastery	Riandi	(JELL)	<u>ew/3656</u>
20	The Effect of Duclings	Universitas Mathla'ul Anwar	ELTD Journal	https://openhi or id/alter/i
20	The Effect of Duolingo Application on Students'	Universitas Mathla'ul Anwar Husnur Rosyidah Aulia, Eka Wahjuningsih, Rika Andayani	ELTR Journal	https://apspbi.or.id/eltr/in dex.php/eltr/article/view.

Discussion

This research examined articles in a meta-analysis and examined the number of different types of variables used (these included audiovisuals, films, games, songs, applications,

jumbled letters, crosswords, and word mapping). Table 2 provides more details about these categories.

No.	Research Related Variables	Effect Size	Number of Articles	Average Effect Size	Category
1	Audio Visual	0.490	1	0.490	Large Effect
2	Film	0.126			Medium Effect
		0.126	4	0.155	
		0.219	4	0.155	
		0.149			
3	Guessing Game	0.893	1	0.893	Large Effect
4	Song	0.992	2	0.547	Large Effect
		0.156	2	0.347	
5	Bingo Game	0.679	1	0.679	Large Effect
6	Duolingo Application	0.042			Medium Effect
		0.529	4	0.210	
		0.178	4	0.210	
		0.089			
7	Jumbled Letters	0.276	1	0.276	Large Effect
8	My Dictionary Application	0.985	1	0.985	Large Effect
9	Vocabulary Notebooks	0.196	1	0.196	Medium Effect
10	Anagram Game	0.168	1	0.168	Medium Effect
11	Crossword	0.537	1	0.537	Large Effect
12	Word Mapping	0.470	1	0.47	Large Effect
13	Memrise Application	0.005	1	0.005	Small Effect

Table 2. Effect Size by Independent Variable (Vocabulary Mastery)

As Table 2 shows, the most prevalent learning mediums employed to enhance students' English vocabulary proficiency are films and the Duolingo application. Table 2 shows that the Guessing Game greatly affects students' English vocabulary with an average effect size of 0.893. This is because the media presented is quite exciting and attracts much interest. Meanwhile, the Memrise Application has the most minor effect on students' mastery of English vocabulary, with an average effect size of 0.005.

No.	Educational Level	Effect Size	Number of Articles	Average Effect Size	Category
1	Elementary School	0.992	1	0.992	Large Effect
2	Junior High School/Islamic Junior	0.893	14	0.339	Large Effect
	High School	0.679			
		0.985			
		0.219			
		0.156			
		0.149			
		0.042			
		0.196			
		0.168			
		0.529			
		0.470			
		0.178			
		0.001			
		0.089			
3	Senior High School/Islamic Senior	0.490	5	0.311	Large Effect
	High School	0.126			-
	-	0.126			
		0.276			
		0.537			

 Table 3. Effect Size by Education Level

164 Shofiyah Dinda Yudiramanda, Farsya Shabira Suhandoko, Muhammad Sulhan

Table 3 shows the distribution of research on English vocabulary learning media based on education level. The level of education shows a significant influence of learning media on the mastery of English vocabulary. Data on the testing of learning media shows better results for elementary school (the largest effect category, 0.992), implementation of learning media in junior high school/Islamic junior high school shows a significant effect (0.339), and implementation in senior high school/Islamic senior high school shows a large effect (0.311).

No.		Publication Year	Effect Size	Number of Articles	Average Effect Size	Category
1	2018		0.149	2	0.173	Medium Effect
1	2010		0.196	2	0.175	Wiedrum Enteet
2	2019		0.679	4	0.733	Large Effect
-	2017		0.276		01120	Large Liteet
			0.992			
			0.985			
3	2020		0.126	4	0.214	Medium Effect
			0.168			
			0.47			
			0.089			
4	2021		0.490	3	0.258	Large Effect
			0.126			C
			0.156			
5	2022		0.893	3	0.478	Large Effect
			0.537			-
			0.001			
6	2023		0.219	3	0.309	Large Effect
			0.529			
			0.178			
7	2024		0.042	1	0.042	Small Effect

Table 4. Effect Size by Publication Year

Table 4 shows the distribution of research on English vocabulary learning media based on the year of article publication. The years of publication 2018-2024 show varying effects. Data on the testing of learning media shows that publications in 2019 have a large effect category (0.733), and publications in 2024 have a small effect category (0.042).

No.	Region of Research	Effect Size	Number of Articles	Average Effect Size	Category
1	Jawa	0.126	9	0.406	Large Effect
		0.893			
		0.992			
		0.985			
		0.219			
		0.156			
		0.149			
		0.042			
		0.089			
2	Sulawesi	0.196	2	0.236	Medium Effe
		0.276			
3	Sumatera	0.490	7	0.387	Large Effect
		0.126			-
		0.679			
		0.168			
		0.529			
		0.537			

Table 5. Effect Size by Region

Meta-Analysis: The Effect of Teaching Media towards Students' English Vocabulary Mastery

		0.178			
4	Nusa Tenggara	0.470	1	0.470	Large Effect
5	Kalimantan	0.005	1	0.005	Small Effect

Table 5 shows the distribution of research on English vocabulary learning media based on research region. It shows that research regions have varying effects. Data on the testing of learning media shows that Nusa Tenggara has a large effect category (0.470), and the Kalimantan region has a small effect category (0.005).

No.	Subunit		Effect Size	Average Effect Size	Category
	Region	Related Variables			
1	Jawa	Duolingo	0.089	0.089	Small Effect
2		Duolingo	0.042	0.042	
3	Kalimantan	Memrise Application	0.005	0.005	
4	Jawa	Film	0.126	0.126	Medium Effect
5		Film	0.219	0.219	
6		Song	0.156	0.156	
7	Sulawesi	Film	0.126	0.126	
8	Sulawesi	Vocabulary Notebooks	0.196	0.196	
9	Jawa	Film	0.149	0.149	
10	Sumatera	Duolingo	0.178	0.178	
11	Jawa	Anagram Game	0.168	0.168	
12		Guessing Games	0.893	0.893	Large Effect
13		Song	0.992	0.992	
14	Sulawesi	My Dictionary Application	0.985	0.985	
15	Sumatera	Audio Visual Media	0.49	0.49	
16		Duolingo	0.529	0.529	
17		Think Bingo Game	0.679	0.679	
18	Sumatera	Crossword Puzzle	0.537	0.537	
19	Nusa Tenggara	Word Mapping	0.47	0.47	
20	Sulawesi	Jumbled Letters	0.276	0.276	
	А	verage of Cumulative Effect Size		0.365	Large Effect

Table 6. Cumulative Effect Size

The overall distribution of research on English vocabulary learning media is shown in Table 6. The overall average effect size of articles from all regions and media indicates a large effect (0.365).

CONCLUSION

The Meta-analysis conducted in this study provides a comprehensive overview of the effect of various teaching media on students' English vocabulary mastery. The findings have yielded insightful findings on using innovative and interactive media, particularly those that engage students actively, such as games and multimedia applications. This aligns with the educational emphasis on student-centered learning and technology integration to enhance academic outcomes.

Films and the Duolingo application emerged as the most prevalent and effective mediums for enhancing students' English vocabulary proficiency. The Guessing Game, with an average effect size of 0.893, greatly affected students' English vocabulary mastery. This suggests that engaging and interactive media can significantly improve vocabulary mastery and be powerful teaching media.

On the other hand, the Memrise Application had the most minor effect on students' English vocabulary mastery, with an average effect size of 0.005. This indicates that not all teaching media are equally effective. These results advocate for the strategic use of technology and engaging teaching methods to support students' vocabulary mastery, which is crucial for practical communication skills in the English language.

This meta-analysis contributes valuable insights for educators, curriculum developers, and policymakers aiming to improve English vocabulary teaching strategies and outcomes in Indonesia and potentially other contexts with similar educational challenges and opportunities.

REFERENCE

- Agazzi, A. (2022). *The Importance of Learning Vocabulary for Young Learners*. International Journal of Multicultural and Multireligious Understanding.
- Andewi, N. L. F., Marhum, A. M., & Maf'ulah. (2019). Using vocabulary notebooks to improve vocabulary mastery of seventh grade students. E-Journal of English Language Teaching Society.
- Aulia, H. R., Wahjuningsih, E., & Andayani, R. (2020). *The Effect of Duolingo* Application on Students' English Vocabulary Mastery. ELTR Journal.
- Bakar, A., & Ma'rifatullah, S (2023). The Influence of Subtitled Movies on Students Vocabulary Mastery. LENCANA.
- Fitri, Y., Melani, M., Roza, V., & Reflinda, R. (2023). The Effect Of Using Duolingo Application Toward Students' Vocabulary Mastery At The Second Grade Of SMPN 1 Koto Besar. Innovative: Journal Of Social Science Research.
- Hasanah, R., Eviyuliwati, I., & Deviyanti. (2022). The Effect of Guessing Game on Students' Vocabulary Knowledge (A Quasi-experimental Study at the Seventh Grade of a state Islamic Junior High School of South Tangerang). Sibatik Journal.
- Healy, M. J. R. (1984). *The Use of R2 as a Measure of Goodness of Fit*. Oxford University Press; Oxford University Press.
- Hutabarat, N. M. P., & Situmeang, S. A. (2023). The Effect Of Using "Duolingo" Application On English Vocabulary Mastery Of Grade Eighth At Smp Swasta Teladan Pematangsiantar. Innovative: Journal Of Social Science Research.
- Khawas, U. T., & Agustina, E. (2024). Pengaruh Penggunaan Duolingo untuk Meningkatkan Kosakata Siswa Kelas Tujuh. Jurnal Abdi Insani.
- Kismoko, M. I. H., & Roni, M. R. (2021). Pengaruh Media Film Barat dengan Subtitle Bahasa Inggris Terhadap Penguasaan Kosakata Siswa dengan Menggunakan Sistem Belajar dari Rumah At SMP Negeri 3 Kaponto RI. Prosiding Seminar Nasional Program Pascasarjana Universitas PGRI Palembang.
- Lestari, R. (2018). The Use of English Subtitle in Movie to Improve Students' Vocabulary: An Experimental Study in Grade IX of SMPN 1 Gunung Sari Academic Year 2015/2016. Academic Journal of Educational Sciences.
- Nasution, W. M., & Sinaga, Y. (2020). Anagram Game to Enhance Students' Vocabulary Mastery. English Journal for Teaching and Learning.
- Noviyanti, R., Bahri, S., & Chairina. (2019). *The Use of Think Bingo Game to Improve Students' Vocabulary Mastery*. Research in English and Education Journal.
- Nurrahmah, S., Romdanih, & Megawati. (2020). Pengaruh Media Film Barat dengan Subtitle Bahasa Inggris terhadap Penguasaan Kosakata Siswa. SEMNARA 2021.

- Puspita, A., & Burhanuddin, C. S. (2021). *The implementation of audiovisual media to improve students' vocabulary mastery through WhatsApp*. U-JET: Unila Journal of English Teaching.
- Qomariyah, S. S., & Nafisah, Bq. Z. (2020). Word Mapping in Students' Vocabulary Mastery. Jo-ELT.
- Ramadini, A., & Halimah, S. (2019). Using Song to Improve Vocabulary Mastery for Elementary School. PROJECT.
- Rohim, R. R., Gumelar, R. R., & Riandi, R. (2022). *The Effect of Memrise Application Towards Students' Vocabulary Mastery*. Journal of English Language Learning (JELL).
- Rohmah, N. (2021). The Use of Modified English Song to Improve Vocabulary. Eltin Journal.
- Santosa, I., & Andriyadi. (2019). The Use of My Dictionary Application to Improve Students, Vocabulary Mastery. Eltin Journal.
- Sari, M. K., Hadina, N., & Rahmanda, N. (2022). *Duolinggo As an Attractive Application* to Upgrade Student's Motivation in Learning English Independently. Menara Ilmu.
- Siregar, D. L., Sitorus, N., & Lestari, F. D. (2023). *The Effect of Using Crosswords in Teaching Vocabulary at The Eight Grade of SMP HKBP Sidorame Medan*. Jurnal Scientia.
- Sudarman, S., Sunarti, Sunarti., Elsa, Widya, Hapsari. (2022). *Teaching English as a Foreign Language in Indonesia: A Guideline for Vocabulary Instruction*. Acitya : Journal of Teaching and Education.
- Wahyuni, S., Rahman, A. W. (2019). Using Jumbled Letters to Improve Students Vocabulary Mastery. KLASIKAL.